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January 14, 2022

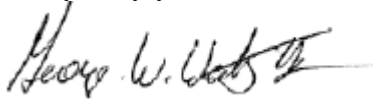
Emma Rodvien, Coordinator
Energy Facility Siting Board
89 Jefferson Boulevard
Warwick, RI 02888

Re: **SB-2021-05 - The Narragansett Electric Company d/b/a National Grid
K-189 115kV Transmission Line Thermal Upgrade and
G-185N 115kV Line Reconductoring Project in Warwick, Rhode Island
Responses to EFSB's First Set of Data Requests**

Dear Ms. Rodvien:

I am enclosing for filing on behalf of The Narragansett Electric Company an original and seven (7) copies of the Responses to the Energy Facility Siting Board's First Set of Data Requests in the above referenced matter.

Very truly yours,



George W. Watson III

Enclosure

Copy to: Docket SB-2021-05 Service List (by electronic mail)

The Narragansett Electric Company
d/b/a National Grid
EFSB Docket No. SB-2021-05
In Re: K-189 115 kV Transmission Line Thermal Upgrade and
G-185N 115kV Line Reconductoring
Project in Warwick, Rhode Island
Responses to the EFSB's First Set of Data Requests
Issued January 4, 2022

Request:

- 1-1 On page 11 of the Siting Report, the Company writes, “the need for the Project is driven by 228 MW of Distributed Energy Resources (DER) that have applied to interconnect to the TNEC distribution system in Western Rhode Island.” Elsewhere, in its February 8, 2021 letter addressed to the US Army Corps of Engineers (from James Rynes), the Company writes that it “plans to conduct thermal upgrades along the K189 Transmission Line, and reconductoring along the G185N Transmission Line, between Drumrock Substation and Kent County Substation. These activities are required to allow for the interconnection of Green Development LLC’s two photovoltaic sites.” Please provide a list of each of the interconnecting DER projects that are collectively driving the need for the proposed Project. Also provide the MW capacity of each interconnecting DER project.

Response:

Section 7 of the *Western RI DER Area Transmission Study: System Impact Study for 228 MW of DER Interconnecting in Western Rhode Island (May 2020)* report states “The steady state analysis has identified additional system upgrades that are required to integrate all 228 MW of the proposed DER projects. However, the initial 132 MW of DER (in terms of interconnection priority order) can interconnect to the system without causing significant adverse impact...”. The remaining 96 MW of the 228 MW caused significant adverse impact resulting in the need for the upgrades of the G185N and K189 transmission lines. The 132 MW threshold has been passed. Of the remaining 96 MWs, the projects listed below totaling 27.25 MW are presently active. These active projects are still responsible for the upgrades of the G185N and K189 transmission lines.

QP #	G185N/K189 Line Upgrades Required (Yes/ No)	AC Rating (MW)
QP-969	Yes	2.00
QP-766	Yes	5.25
QP-839	Yes	10.00
QP-839	Yes	10.00
	TOTAL	27.25

The Narragansett Electric Company
d/b/a National Grid
EFSB Docket No. SB-2021-05
In Re: K-189 115 kV Transmission Line Thermal Upgrade and
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EFSB 1-2

Request:

- 1-2 On page 21 of the Siting Report, the Company writes “the transmission upgrades described in this Report would only be constructed if and when the Green Development, LLC facility is approved by the applicable federal, state, and local regulatory agencies.” Please confirm the “applicable federal state, and local regulatory” approval status for each of the interconnecting DER projects identified in EFSB 1-1.

Response:

As evidenced by the 2018 Master Construction Plan filed by The Narragansett Electric Company, this project was originally required to address transmission line conditions resulting from the interconnection of the Clear River Energy Center, and the Siting Report was originally drafted for that project. *See Attachment TNEC 1-2.* This project was later put on hold after the Clear River Energy Center was canceled. The statement that “the transmission upgrades described in this Report would only be constructed if and when the Green Development, LLC facility is approved by the applicable federal, state, and local regulatory agencies” is from the original draft of the Siting Report for the Clear River Energy Center and should have been modified.

As noted in the Siting Report, the project is now needed to address conditions caused by the interconnection of solar projects in the area. Green Development, LLC has entered into a Large Generator Interconnection Agreement (“LGIA”) for each of the projects identified in the response to EFSB 1-1. Once the LGIA is signed, the customer is obligated to pay in accordance with the terms of the LGIA and the Company is obligated to construct the facilities necessary to allow the projects to interconnect by a certain date. The LGIA provides for installment payments. At this time, only the RI-25078252 - 172 Beaver River Road, West Kingston, RI – 5.25 MW has a payment that is past due. All of the other projects are current with installment payments due in the near future. At the time of this writing, none of the identified projects are paid in full.

The Company contacted the customer regarding the permitting status and received confirmation that all appropriate permits and approvals are in place for the identified projects.

2018 MASTER CONSTRUCTION PLAN

The Narragansett Electric Company d/b/a National Grid

Introduction

In 1992, the Rhode Island General Assembly amended § 42-98-8(A)(4) to require an applicant for a license for a major energy facility to include in its application information to demonstrate the need for the proposed facility “under the statewide master construction plan submitted annually.” In amendments to its Rules of Practice and Procedure (“EFSB Rules”) dated December 2, 1993, the Energy Facility Siting Board (the “EFSB”) adopted a new § 1.35 which requires the filing of an annual statewide master construction plan within ninety (90) days of the adoption of the amended regulations and on every subsequent December 1. The plan must contain “a brief and concise description of any major energy facilities which the filing party proposes to construction in the succeeding two years.”¹ Several of the new transmission tap lines and transmission line relocations listed herein will be permitted under Section 1.6(c) of the EFSB Rules and should not be considered major energy facilities. This is the Master Construction Plan for Calendar Year 2018 for The Narragansett Electric Company d/b/a National Grid (“National Grid”).

Aquidneck Island Reliability Project (Docket SB-2016-01)

EFSB Order issued August 18, 2017. Construction of this project is expected to commence in 2018. The project components include:

- Construct a new Jepson Substation on the west side of Jepson Lane in Middletown;
- Modify the Dexter Substation in Portsmouth to reconfigure to 115 kV operation;
- Rebuild and upgrade 4.5 miles of the 69 kV 61/62 Lines to 115 kV between Dexter Substation and the new Jepson Substation;
- Relocate the existing 69 kV 63 Line to accommodate the construction of the new Jepson Substation; and
- Temporarily relocate portions of the 115 kV M13 and L14 Lines in the vicinity of the Dexter Substation in Portsmouth to accommodate modifications to the substation.

Clear River Energy Center (“CREC”) Transmission Interconnection and Network Upgrades

The Burrillville Interconnection Project and CREC-related network upgrades described below are required to support the interconnection of the proposed CREC into the New England electric grid. Construction of these projects is contingent on the CREC Project. Current plans are for construction to commence in 2018.

¹ EFSB Rules of Practice and Procedure § 1.35 (Effective Date: April 11, 1996).

- Burrillville Interconnection Project (Docket SB 2017-01) —
 - Construct a new approximately 6.8 mile 345 kV transmission line (3052 Line) from the proposed CREC to the Sherman Road Switching Station in Burrillville.
 - Reconstruct approximately 1.6 miles of the 345 kV 341 Line within the existing ROW to accommodate the 3052 Line.
 - Relocate approximately 1.6 miles of the 345 kV 347 Line within the existing ROW to accommodate the 3052 Line.
 - Modify the Sherman Road Switching Station to accommodate the 3052 Line.
 - Relocate the last span of the 345 kV 328 Line into the Sherman Road Switching Station to accommodate the 3052 Line.
- CREC-related Network Upgrades —
 - Reconductor approximately 0.1 mile of the 115 kV T-172N West Farnum Tap Line in North Smithfield.
 - Reconductor approximately 0.1 mile of the 115 kV S-171N West Farnum Tap Line in North Smithfield.
 - Uprate approximately 1.0 mile of the 115 kV K-189 Line from Kent County Substation to Drumrock Substation in Warwick.
 - Reconductor approximately 1.0 mile of the 115 kV G-185N Line from Kent County Substation to Drumrock Substation in Warwick.
 - Reconductor approximately 3.6 miles of the 115 kV H-17 Line from Farnum Tap in North Smithfield to Riverside Substation in Woonsocket.
 - Reconductor approximately 10.0 miles of the 115 kV R-9 Line from Riverside Substation in Woonsocket to Valley Substation in Cumberland.

Other Projects

Alteration of Existing Transmission Lines

- Reconstruct approximately 0.8 miles of the 115 kV E-183 Line from East Providence (vicinity of Phillipsdale tap) to Providence (existing Structure #108). This project will relocate this line segment overhead along the “South Bridge Alignment”. Construction of this project is expected to commence in 2019 or later, depending on funding and scheduling issues. This case is ongoing before the EFSB as Docket SB-2003-01.
- Relocate 115 kV T1, T2 and T3 overhead Lines between Franklin Square and South Street substations in Providence into an underground configuration (less than 2,000 feet). This project was approved by the EFSB on June 28, 2016 in Docket SB-2016-02. Construction of this project commenced in 2016 and is expected to be completed by the end of 2019.
- Realign the Q-143, R-144, S-171N and T-172N transmission line connections to the existing Woonsocket Substation. The realignments will allow the Q-143 and R-144 lines to be connected to a new termination structure at the Woonsocket Substation. Permitting is expected to commence this winter and construction is scheduled to start in 2018.

- Relocate the Q-143 and R-144 Providence River crossings between the Franklin Square Substation on the west of the river to a manhole at Dollar Street on the east side of the river. Permitting is expected to commence this winter and construction is scheduled to start in 2018.

Construction of New Transmission Lines

- Construct a new 115 kV tap line from the 115 kV T-172S Line into the new New London Avenue Substation to be constructed in Warwick. The tap line will be several hundred feet in length. This project was approved by the EFSB on November 16, 2015 in Docket SB-2015-05. Construction of this project commenced in 2016.

Construction of New Natural Gas Pipeline

- Construct approximately 5.1 miles of natural gas pipeline from West Warwick south of the Cranston Take Station to a district regulator station at the end of the new pipeline in East Greenwich. The pipeline will consist of 20 inch steel main designed for a Maximum Allowable Operating Pressure (MAOP) of 200 psig and constructed to be In-Line Inspected (ILI). Permitting is expected to commence summer 2018 and construction is currently slated to begin in spring or summer 2019 with construction being conducted in five phases and completed in 2022 or 2023.

| November 30, 2017